

CURRICULUM VITAE

Personal Information:

Name: Cornel Pasnicu
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Education:

1976 B.A. University of Bucharest, Bucharest, Romania

1977 M.S. University of Bucharest, Bucharest, Romania
Advisor: Ciprian Foias

1987 Ph.D. University of Bucharest, Bucharest, Romania
Advisor: Dan Voiculescu (Thesis defended under the supervision
of Ion Colojoara)

Title of M.S. Thesis: The Ext Semigroup of Separable C^* -Algebras

Title of Ph.D. Thesis: The Study of Certain Special Classes of Operator
Algebras

Research Areas:

Functional Analysis

Operator Algebras (Classification and Structure of C^* -Algebras,
 K -Theory, Non-Commutative Dynamical Systems)

Operator Theory

Employment:

October 1980-September 1991: Research Fellow, National Institute for Scientific Research (the Institute of Mathematics Simion Stoilow of the Romanian Academy), Bucharest, Romania

September 1991-December 1991: Visiting Scholar of the Institute of Mathematics University of Copenhagen, Copenhagen, Denmark

February 1992-June 1992: Visiting Associate Professor, Department of Mathematics, University of Toronto, Canada

July 1992-June 1997: Associate Professor, Department of Mathematics, University of Puerto Rico, Rio Piedras Campus, Puerto Rico, U.S.A.

July 1997-July 2011: Full Professor (with tenure), Department of Mathematics, University of Puerto Rico, Rio Piedras Campus, Puerto Rico, U.S.A.

August 17, 2011-present: Full Professor (with tenure), Department of Mathematics, University of Texas at San Antonio, U.S.A.

Research Grants, NSF panel participations and NSERC reviewer:

NSF grant DMS-9401515, 1994-1996.

NSF grant DMS-9622250, 1996-2000.

DEPSCoR (Defense Experimental Program to Stimulate Competitive Research) grant from the U.S. Army Research Office, No. DAAD19-00-1-0152, 2000-2004 (\$352,500).

NSF grant DMS-0101060, 2001-2005 (\$77,776).

Member of the NSF Operator Algebras/Operator Theory panel (Arlington, VA, January 22-24, 2002) (this panel decided the NSF research awards

in these areas starting in 2002).

FIPI (UPR Institutional Fund for Research), 2005-2007 (\$30,000).

Reviewer of a Natural Sciences and Engineering Research Council of Canada (NSERC) Discovery Grant proposal (2009 and 2015).

Selected Talks (since 1991):

Before 1991, I have given talks at a number of international mathematical conferences on Operator Theory and Operator Algebras, held in Timisoara, Bucharest, Predeal and Craiova (Romania).

(Main Speaker) Summer School in Operator Algebras, Copenhagen, Denmark, August 1991.

(Main Speaker) Meeting on Operator Algebras, Røros, Norway, September 1991.

20th Canadian Annual Symposium on Operator Algebras, Calgary, Canada, May 1992.

(Invited Speaker) 3rd International Workshop and Mini Conference in Operator Theory and Evolution Equations, San Juan and Mayagüez, Puerto Rico, March-April 1993.

GPOTS (Great Plains Operator Theory Symposium), Boulder, Colorado, June 1993.

GPOTS (Great Plains Operator Theory Symposium), Lincoln, Nebraska, May 1994.

(Invited Speaker) AMS Meeting (Special Session “Simple C^* -algebras”), Eugene, Oregon, June 1994.

11th Southeastern Analysis Meeting (SEAM XI), Atlanta, Georgia, March 1995.

GPOTS (Great Plains Operator Theory Symposium), Cincinnati, Ohio, May 1995.

(Main Speaker) 5th Annual Meeting of the International Workshop in Analysis and Its Applications (IWAA), Rolla, Missouri, May 1995.

12th Southeastern Analysis Meeting (SEAM XII), Richmond, Virginia, March 1996.

(Invited Speaker) Workshop on “ C^* -algebras”, Oberwolfach, Germany, April 1996.

GPOTS (Great Plains Operator Theory Symposium), Tempe, Arizona, May 1996.

(Invited Speaker) Annual Meeting of the AMS (Special Session “Noncommutative Geometry and Applications”), San Diego, California, January 1997.

Joint Meeting of the Canadian Operator Algebras Symposium and the Great Plains Operator Theory Symposium, Kingston, Canada, May 1997.

(Invited Speaker) International Conference on Operator Algebras and Operator Theory Shanghai, China, July 1997.

(Invited Speaker) Canadian Mathematical Society Meeting (Special Session “Amenable C^* -algebras”), Victoria, Canada, December 1997.

GPOTS (Great Plains Operator Theory Symposium), Manhattan, Kansas, May 1998.

17th Conference on Operator Theory, Timisoara, Romania, June 1998.

(Invited Speaker) Annual Meeting of the AMS (Special Session “Operator Algebras and Applications”), San Antonio, Texas, January, 1999.

GPOTS (Great Plains Operator Theory Symposium), Ames, Iowa, May 1999.

(Invited Speaker) NATO Advanced Research Workshop on “Simple C^* -algebras and Non-commutative Dynamical Systems”, MSRI (part of the full-year 2000-2001 Program on Operator Algebras organized by MSRI), Berkeley, California, September 2000.

17th Southeastern Analysis Meeting (SEAM XVII), Athens, Georgia, March 2001.

(Invited Speaker) Workshop on “ C^* -algebras”, Oberwolfach, Germany, December 2001.

GPOTS (Great Plains Operator Theory Symposium), Charlotte, North Carolina, May 2002.

GPOTS (Great Plains Operator Theory Symposium), Urbana-Champaign, Illinois, May-June 2003.

(one of the two 1 hour Invited Speakers) Wabash Extramural Modern Analysis Seminar, Wabash College, Indiana, April 2004.

(Invited Speaker) Workshop on “The structure of amenable systems”, Banff International Research Station (BIRS), Banff, Canada, October-November 2004.

21st Southeastern Analysis Meeting (SEAM XXI), Lexington, Virginia, April 2005.

(Invited Speaker) GPOTS (Great Plains Operator Theory Symposium), Iowa City, Iowa, May 2006.

(Invited Speaker) Workshop on “Recent Advances in Operator Algebras”, Rome, Italy, November 2006.

(Invited Speaker - 45 minute talk) Workshop on “Structure of C^* -Algebras”, Fields Institute (part of the Thematic Program on Operator

Algebras July-December 2007, organized by the Fields Institute),
Toronto, Canada, November 2007.

(Invited Speaker - 40 minute talk) AMS Spring Meeting (Special Session
"C*-algebras, subfactors and free probability"), Claremont,
California, May 2008.

(Invited Speaker - 60 minute talk) "Workshop on structure of C*-algebras",
Qinhuangdao, China, September 2009.

Invited (fully paid) participant at the workshop "The Cuntz semigroup",
the American Institute of Mathematics, Palo Alto, California,
November 2009.

Invited participant at the workshop "Classification of amenable C*-algebras",
Banff International Research Station (BIRS), Banff, Canada,
September 2010.

"Conference on Structure and Classification of C*-Algebras", Centre de
Recerca Matemàtica (CRM) (part of the Research Program "The
Cuntz semigroup and the Classification of C*-Algebras", February-
July 2011, organized by CRM), Bellaterra, Barcelona, Spain,
June 2011.

(Invited Speaker - 60 minute talk) "2012 Operator Algebras Program",
The Research Center for Operator Algebras, East China Normal
University, Shanghai, China, May 2012.

(Invited Speaker) "Operator Algebras, Frames, & Undergraduate
Research: A conference in Honor of the 70th Birthday of David R.
Larson", Texas A&M University, College Station, Texas, July 2012.

(Invited Speaker - 50 minute talk) "C*-Algebras, Structures, and
Classification" (conference organized by Jilin University), Changchun,
China, July 2013. *This conference celebrated my 60th birthday.*

GPOTS (Great Plains Operator Theory Symposium), Manhattan,

Kansas, May 2014.

(Invited Speaker - 50 minute talk) "C*-Algebras and Dynamical Systems Workshop", Fields Institute (part of the "Thematic Program on Abstract Harmonic Analysis, Banach and Operator Algebras" January-December 2014, organized by the Fields Institute), Toronto, Canada, June 2014.

(Invited Speaker - 45 minute talk) "Workshop on Structure and Classification of C*-algebras" (part of the "Focus Programme on C*-algebras", April-July 2015, organized by the Institute of Mathematics, University of Münster) Münster, Germany, April 2015.

(Invited Speaker - 50 minute talk) "CBMS: Basic Homotopy Lemma, Asymptotic Uniqueness Theorem and the Classification of C*-Algebras", University of Wyoming, Laramie, Wyoming, June 2015.

(Invited Seminar Speaker - 60 minute talk) spring term research program: "Classification of operator algebras: complexity, rigidity, and dynamics", Institut Mittag-Leffler, The Royal Swedish Academy of Sciences, Stockholm, Sweden, January 2016.

GPOTS (Great Plains Operator Theory Symposium), Fort Worth, Texas, May 2017.

"Conference on C*-algebras: Structure, Classification and Dynamics" (part of the "Intensive Research Program in Operator Algebras: Dynamics and Interactions" (March 1-July 21, 2017), Centre de Recerca Matemàtica, UAB, Barcelona, Spain, June 2017.

GPOTS (Great Plains Operator Theory Symposium), Oxford, Ohio, May-June 2018.

(Invited Speaker - 50 minute talk) "Symposium on K-theory and non-commutative topology", San Juan, Puerto Rico, U.S.A.,

October 2018.

GPOTS (Great Plains Operator Theory Symposium), College Station, Texas, May-June 2019.

(Invited Speaker - 50 minute talk) "Special Week on Operator Algebras 2019", The Research Center for Operator Algebras, East China Normal University, Shanghai, China, June 2019.

Also, the paper [11] was presented by one of my co-authors in the Special Session on C^* -algebras and Noncommutative Topology, at the Annual Meeting of the AMS, San Francisco, January, 1991.

Colloquium Lectures and Seminar Talks (since 1988):

University of Szeged (Hungary, 1988).

University of Copenhagen (Denmark, 1991).

University of Odense (Denmark, 1991).

University of Aarhus (Denmark, 1991).

University of Toronto (Canada, 1992).

Kansas State University, Manhattan (U.S.A., 1992; Colloquium Talk).

University of California at Los Angeles (U.S.A., 1994).

Georgia Institute of Technology, Atlanta (U.S.A., 1995).

University of New Hampshire, Durham (U.S.A., 1997; Colloquium Talk).

University of Pennsylvania, Philadelphia (U.S.A., 1997 and visit in 2004).

Purdue University, West Lafayette (U.S.A., 1997, 2002, 2004 and 2009;

Operator Algebras Seminar Talks).

University of Kansas, Lawrence (U.S.A., 1998; Ellis B. Stouffer Colloquium Talk).

University of Geneva (Switzerland, 1998).

Institute of Mathematics Simion Stoilow of the Romanian Academy, Bucharest (Romania, 1998, 2002, 2005 and 2006; Colloquium Talks).

Texas A&M University, College Station (U.S.A., 1998).

University of Texas at San Antonio (U.S.A., 1998, 2002-2003, 2007 and 2009; Colloquium Talks).

University of Rome II “Tor Vergata” (Italy, 2002).

University of Paris VI (France, 2002; two Seminar Talks).

University of Oregon, Eugene (U.S.A., 2003; Colloquium Talk and Analysis Seminar Talk).

Indiana University Bloomington (U.S.A., 2004).

East Carolina University, Greenville (U.S.A., 2005; Colloquium Talk).

Wayne State University, Detroit (U.S.A., 2007; Colloquium Talk and Joint Analysis/Topology Seminar Talk).

Vanderbilt University, Nashville (U.S.A., 2009; Colloquium Talk and Informal von Neumann Algebras Seminar Talk).

University of Maryland, Baltimore County, Baltimore (U.S.A., 2010; Colloquium Talk).

Texas A&M University, College Station (U.S.A., 2012).

University of Houston (U.S.A., 2013).

University of Nevada, Reno (U.S.A., 2015; Colloquium Talk).

Purdue University, West Lafayette (U.S.A., 2016).

Hebei Normal University, Shijiazhuang (China, 2018; Colloquium Talk).

Special Awards:

Simion Stoilow Prize of the Romanian Academy for the year 1988.

This is one of the generally two-four prizes given annually in Romania by the Romanian Academy for the best mathematical achievements in that country. In this case, the prize was awarded for my Ph.D. Thesis.

Honorary Member of the Institute of Mathematics Simion Stoilow of the Romanian Academy.

(Elected in March 2005).

National Romanian Bursary for Best Students in Mathematics (1972-1977).

This is a fellowship awarded to the best mathematics students at the level of B.S. or M.S.

Other Information:

Award for Academic Excellence and Productivity, University of Puerto Rico, Rio Piedras Campus, 1998.

Chairman of the Organizing Committee of the Great Plains Operator Theory Symposium (GPOTS), May 23-27, 2000, San Juan, Puerto Rico (GPOTS is the most important annual meeting in Operator Theory and Operator Algebras in the USA and the largest conference in these areas in the world).

Organizer of the Conference "Functional Analysis and Applications: A

Conference in the Memory of Ioana Cioranescu", August 15-17, 2003, University of Puerto Rico, Rio Piedras Campus, San Juan, Puerto Rico.

Organizer of the "Workshop on Analysis on Groups", March 15-19, 2008, University of Puerto Rico, Rio Piedras Campus, San Juan, Puerto Rico.

I was the supervisor of three Master Theses (of: Victor V. Vega, Jose P. Aponte and Jose R. Carrion).

List of Publications

1. C. Pasnicu: On and around the weak ideal property, submitted.
2. C. Pasnicu and N. C. Phillips: Relating properties of crossed products to those of fixed point algebras, *Indiana Univ. Math. J.*, to appear.
3. G. Gong, C. Jiang, L. Li and C. Pasnicu: A reduction theorem for AH algebras with the ideal property, *Int. Math. Res. Not. IMRN*, Vol. 2018 (24), (2018), 7606-7641.
4. C. Pasnicu and N. C. Phillips: The weak ideal property and topological dimension zero, *Canad. J. Math.*, Vol. 69 (6), (2017), 1385-1421.
5. C. Pasnicu and N. C. Phillips: Crossed products by spectrally free actions, *J. Funct. Anal.*, 269 (2015), 915-967.
6. C. Pasnicu and N. C. Phillips: Permanence properties for crossed products and fixed point algebras of finite groups, *Trans. Amer. Math. Soc.*, 366 (2014), 4625-4648.
7. C. Pasnicu and F. Perera: The Cuntz semigroup, a Riesz type interpolation property, comparison and the ideal property, *Publ. Mat.*, 57 (2013), 359-377.
8. G. Gong, C. Jiang, L. Li and C. Pasnicu: AT structure of AH algebras with the ideal property and torsion free K -theory, *J. Funct. Anal.*, 258 (2010), 2119-2143.
9. C. Pasnicu: \mathcal{D} -stable C^* -algebras, the ideal property and real rank zero, *Bull. Math. Soc. Sci. Math. Roumanie (N.S.)*, Tome 52 (100), No. 2 (2009), 177-192.

10. J. R. Carrion and C. Pasnicu : Approximations of C^* -algebras and the ideal property, *J. Math. Anal. Appl.*, 338 (2008), 925-945.
11. C. Pasnicu and M. Rørdam: Purely infinite C^* -algebras of real rank zero, *J. Reine Angew. Math.*, 613 (2007), 51-73.
12. C. Pasnicu: The ideal property, the projection property, continuous fields and crossed products, *J. Math. Anal. Appl.*, 323 (2006), 1213-1224.
13. M. Dadarlat and C. Pasnicu: Continuous fields of Kirchberg C^* -algebras, *J. Funct. Anal.*, 226 (2005), 429-451.
14. C. Pasnicu: Real rank zero and continuous fields of C^* -algebras, *Bull. Math. Soc. Sci. Math. Roumanie (N.S.)*, Tome 48 (96), No. 3 (2005), 319-325.
15. C. Pasnicu: The ideal property and tensor products of C^* -algebras, *Rev. Roumaine Math. Pures Appl.*, Vol. 49, No. 2 (2004), 153-163.
16. C. Pasnicu: LB algebras, *J. Operator Theory*, 50 (2) (2003), 263-281.
17. C. Pasnicu: The ideal property in crossed products, *Proc. Amer. Math. Soc.*, 131, No. 7 (2003), 2103-2108.
18. C. Pasnicu: The projection property, *Glasg. Math. J.*, 44 (2002), 293-300.
19. C. Pasnicu: Ideals generated by projections and inductive limit C^* -algebras, *Rocky Mountain J. Math.*, Vol. 31, No. 3 (2001), 1083-1095.
20. C. Pasnicu: The ideal property and traces, *Math. Nachr.*, Vol. 227, 1 (2001), 127-132.
21. C. Pasnicu: On the (strong) GAH algebras, *Rev. Roumaine Math. Pures Appl.*, Vol. 46, No. 4 (2001), 489-498.
22. C. Pasnicu and M. Rørdam: Tensor products of C^* -algebras with the ideal property, *J. Funct. Anal.*, 177 (2000), 130-137.
23. C. Pasnicu: On the AH algebras with the ideal property, *J. Operator Theory* 43 (2) (2000), 389-407.

24. C. Pasnicu: Shape equivalence, nonstable K -theory and AH algebras, Pacific J. Math., Vol. 192 (1) (2000), 159-182.
25. C. Pasnicu: Extensions of AH algebras with the ideal property, Proc. Edinburgh Math. Soc., 42 (1999), 65-76.
26. C. Pasnicu: AH algebras with the ideal property, Operator Algebras and Theory, Contemporary Mathematics, Vol. 228, A.M.S., Providence, Rhode Island (1998), 277-288.
27. C. Pasnicu: On some classes of amenable C^* -algebras, Proceedings of the 5th International Workshop in Analysis and Its Applications, Rolla, Missouri, 1995, Mathematica Moravica, Special Issue, published by University of Kragujevac, Yugoslavia, (1997), 251-258.
28. G. A. Elliott, G. Gong, H. Lin and C. Pasnicu: Abelian C^* -subalgebras of C^* -algebras of real rank zero and inductive limit C^* -algebras, Duke Math. J., Vol. 85, 3 (1996), 511-554.
29. C. Pasnicu: Nonstable K -theory results for some AH algebras, Math. Scand., 78 (1996), 112-120.
30. C. Pasnicu: On the range of traces on the set of projections of some simple C^* -algebras with real rank zero, Stud. Cerc. Mat. (Mathematical Reports), Vol. 47, 5-6 (1995), 453-457.
31. C. Pasnicu: Automorphisms of inductive limit C^* -algebras, Math. Scand., 74 (1994), 263-270.
32. G. A. Elliott, G. Gong, H. Lin and C. Pasnicu: Homomorphisms, homotopies and approximations by circle algebras, C.R. Math. Rep. Acad. Sci. Canada, Vol. XVI (1994), 45-50.
33. M. Martin and C. Pasnicu: Some comparability results in inductive limit C^* -algebras, J. Operator Theory, 30 (1993), 137-147.
34. C. Pasnicu: Homomorphisms compatible with some covering maps, C.R. Math. Rep. Acad. Sci. Canada, Vol. XIV, No. 6, December (1992), 263-267.

35. C. Pasnicu: Homomorphisms compatible with covering maps of the two-torus, *C. R. Math. Rep. Acad. Sci. Canada*, Vol. XIV, No. 4, August (1992), 143-147
36. C. Pasnicu: Homomorphisms of Bunce-Deddens algebras, *Pacific J. Math.*, Vol. 155, No. 1 (1992), 157-167.
37. M. Dadarlat, G. Nagy, A. Némethi and C. Pasnicu: Reduction of topological stable rank in inductive limits of C^* -algebras, *Pacific J. Math.*, Vol. 153, No. 2 (1992), 267-276.
38. M. Dadarlat, G. Nagy, A. Némethi and C. Pasnicu: Réduction du rang stable topologique dans C^* -algèbres limites inductives, *C.R. Acad. Sci., Paris*, tome 312, Série I (1991), 107-108.
39. M. Dadarlat and C. Pasnicu: On approximately inner automorphisms of certain crossed product C^* -algebras, *Proc. Amer. Math. Soc.*, 110 (1990), 383-385.
40. M. Dadarlat and C. Pasnicu: On certain automorphisms of reduced crossed products with discrete groups, *J. Operator Theory*, 23 (1990), 179-193.
41. M. Dadarlat and C. Pasnicu: Inductive limits of $C(X)$ -modules and continuous fields of AF -algebras, *J. Funct. Anal.* 85 (1989), 103-116.
42. C. Pasnicu: On inductive limits of certain C^* -algebras of the form $C(X) \otimes F$, *Trans. Amer. Math. Soc.*, 310 (1988), 703-714.
43. C. Pasnicu: Studiul unor clase speciale de algebre de operatori, *Stud. Cerc. Mat.*, Tom 40, Nr. 3 (1988), 175-231.
44. C. Pasnicu: Tensor products of Bunce-Deddens algebras, *Operator Theory: Advances and Applications*, Vol. 24, Birkhäuser Verlag, Basel (1987), 283-288.
45. C. Pasnicu: On certain inductive limit C^* -algebras, *Indiana Univ. Math. J.*, 35 (1986), 269-288.
46. C. Pasnicu: Weighted shifts as direct summands mod C_2 of normal operators, *Operator Theory: Advances and Applications*, Vol. 11, Birkhäuser Verlag, Basel (1983), 275-281.

47. C. Foias, C. Pasnicu and D. Voiculescu: Weak limits of almost invariant projections, *J. Operator Theory*, 2 (1979), 79-93.